

A contribution to the flora of Bastar (Madhya Pradesh)¹

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The present paper records 319 species of vascular plants which are reported for the first time from Bastar. Fourteen species (marked by double asterisk) are new records for Central India and eighteen (marked by single asterisk) for Madhya Pradesh.

INTRODUCTION

Bastar, the largest district of Madhya Pradesh and third largest district of India with an area of 39171 square kilometres lies between 17° 45'-20°23' north and 80°15'-82°15' east. It is situated on extreme south of the State, bordered on the three sides by Orissa. Andhra Pradesh and Maharashtra.

The botany of Bastar presents an interesting study since the southern limit of sal is reached about 18°30' north. A number of species of the south and coastal regions make their appearance here. The hill range Bailadilla presents an interesting flora.

After Mooney's (1942) account of the flora of Bailadilla hill, no contribution to the flora of Bastar was made till recently when Subramanyam & Henry (1966) published a list of 481 species of vascular plants, which was the outcome of their three collection tours. Jain (1963, 1964, 1965) has made contributions towards the ethnobotany of the region. Arora (1968) made further contribution to the botany of Bailadilla. Casual reference of the area has also been made by Tiwari (1954, 1955, 1963,

1964), Tiwari & Maheshwari (1963, 1964, 1965), Panigrahi *et al.* (1965, 1966, 1967), Ramlal & Panigrahi (1967), and Shukla & Panigrahi (1967).

The list that follows enumerates 319 species of vascular plants which are reported for the first time from Bastar; of this eighteen species are new records for Madhya Pradesh (marked by single asterisk) and fourteen for central India (marked by double asterisk). This report is based on five years intensive touring in the area in different seasons of the year. The herbarium specimens cited, are preserved in the Herbarium, State Forest Research Institute, Jabalpur.

DILLENIACEAE

Dillenia aurea Sm.

Tirathgarh, Dantewada. Saxena 5492; Khotele 6085, 9347. Local name: *Mechi*.

PAPAVERACEAE

Argemone mexicana Linn.

Chotedongar. Khotele 3076, 5237; Khotele & Shukla 7249. Local name: *Piladhatura, Katai*.

VIOLACEAE

Hybanthus enneaspermus (Linn.) F. v. Muell.

Awapalli, Bhairamgarh, Kanker, Geedam. Khotele 9385, 3309, 11504.

¹ Accepted March 1972.

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CAPPARACEAE

Capparis zeylanica Linn. (non Fl. Brit. Ind.)
Bastar. *Khotele* 5270.

Cleome viscosa Linn.
Bhopalpatnam. *Khotele* 4407, 8776.

BIXACEAE

Bixa orallana Linn.
Bastar. *Singh* 4397.

PITTOSPORACEAE

** *Pittosporum nepaulense* (DC.) Rehder ex Wilson.
var. *rawalpindiense* Gowda
Bailadilla, Dantewada. *Khotele* 8050.

POLYGALACEAE

Polygala chinensis Linn.
Keshkal, Bhopalpatnam, Marta, *Saxena* 1785;
Khotele 3038; *Singh* 7164.
P. elongata Klein ex Willd.
Tirathgarh, Kutumsar, Marta. *Saxena* & *Khotele*
6526; *Khotele* & *Shukla* 7398; *Singh* 7166.
P. longifolia Poir.
Badedongar. *Khotele* 8521.
P. persicariaefolia DC.
Manikpur. *Saxena* 1443.

CARYOPHYLLACEAE

Polycarpon indicum (Retz.) Merr.
syn. *Polycarpon loeflingii* (Wall.) Benth. & Hk. f.
Tirathgarh. *Khotele* 6523.

PORTULACACEAE

Portulaca oleracea Linn.
Bhopalpatnam. *Khotele* 8769.

TAMARISCINEAE

Tamarix eriocoides Rottl.
Bhopalpatnam. *Khotele* 8779.

ELATINACEAE

Bergia ammanioides Roxb.
Budra, Bhopalpatnam. *Khotele* 3418, 8768.

HYPERICACEAE

Hypericum javanicum Thunb.
Gadantari. *Khotele* 5297. Local name: *Kurandi*.

MALVACEAE

Abutilon hirtum G. Don
syn. *A. graveolens* W. & A.
Bhairamgarh. *Khotele* 9354.
Hibiscus micranthus Linn. f.
Kanker. *Khotele* 2013.
H. sabdariffa Linn.
Dhondai, Narainpur. *Khotele* 4028, 4072, 8325.
H. tetraphyllus Roxb.
Kirandul. *Saxena* 1365.

TILIACEAE

Corchorus olitorius Linn.
Kirandul. *Saxena* 1358.
Grewia subinaequalis DC.
Awapalli. *Khotele* 9357.

OXALIDACEAE

Biophytum reinwardtii (Zucc.) Klotz.
Amabeda-Antagarh, Kanker, Bhanupratappur,
Keshkal. *Khotele* 2049, 2593; *Shukla* 5314. Local
name: *Jukku*.
Oxalis corniculata Linn.
Common weed. *Singh* 4301, 6766; *Khotele* 3084,
5271. Local name: *Kodey*.

RUTACEAE

Citrus medica Linn.
Bhansi. *Saxena* 1412.
Hesperethusa crenulata (Roxb.) Roem
Dantewada. *Saxena* 1213.

OCHNACEAE

* *Ochna gamblei* King
Darbha. *Saxena* 5436; *Khotele* 9003, 9340.

OLACEAE

Olax nana Wall.
Purva Kameli. *Khotele* 9074.

FLORA OF BASTAR

VITACEAE

- Cayratia carnos*a Gagnep.
Keshkal. *Saxena* & *Khotele* 1807.
Cissus vitifolia Linn.
syn. *Vitis linnei* Wall. ex W. & A.
Nunalguda. *Singh* 27131.

SAPINDACEAE

- Cardiospermum helicacabum* Linn.
Sukma. *Saxena* 5675.
Erioglossum rubiginosum Bl.
syn. *E. edule* Bl.
Bhainsgaon, Narainpur. *Khotele* 5038.

MORINGACEAE

- Moringa oleifera* Lamk.
Kosalnar-Kondagaon. *Khotele* 3427, 5278. Local
name: *Munga*.

PAPILIONACEAE

- Aeschynomene aspera* Linn.
Bhairamgarh. *Khotele* 9333.
Alysicarpus glumaceus (Vahl) DC.
syn. *A. rugosus* DC.
Bastar. *Khotele* 11528.
Alysicarpus procumbens (Roxb.) Schindl.
syn. *A. hamosus* Edgew.
Kanker. *Khotele* 10196.
Alysicarpus vaginalis (Linn.) DC.
Common. *Saxena* 1549, 1827; *Khotele* 3040, 3882,
3110, 5295; *Singh* 4366. Local name: *Bhuikumra*,
Phadkuli.
Clitoria ternatea Linn.
Jagdalpur. *Khotele* & *Shukla* 6466.
Crotalaria alata Buch.-Ham.
Kondagaon. *Saxena* & *Khotele* 1956; *Khotele*
10378.
C. calycina Schrank
Beejapur, Kutumsar, Korar, Geedam. *Singh* 2361;
Khotele & *Shukla* 6426, 6457; *Khotele* 8417, 10398.
* *C. humifusa* Grah.
Godantari-Kondagaon. *Khotele* 5291.
C. laburnifolia Linn.

- Jagdalpur, Darbha. *Khotele* 3491, 10213.
C. prostrata Rottl. ex Willd.
Bodegaon-Antagarh, Narainpur, Darbha, Kiran-
dul, Bhansi. *Khotele* 2076, 4020, 10216; *Saxena*
1410; *Singh* 2581.
Dalbergia sissoo Roxb. ex DC.
Pharasaon. *Khotele* 8541.
Desmodium dichotomum (Willd.) DC.
syn. *Desmodium diffusum* Willd.
Keshkal. *Saxena* 1583.
Desmodium triflorum (Linn.) DC.
Narainpur, Beejapur, Antagarh. *Khotele* 4013;
Singh 2202, 2234.
Desmodium velutinum (Willd.) DC. var. *velutinum*
Kanker, Kirandul, Pharasaon, Sambalpur, Bha-
nupratappur, Bhansi, Jagdalpur. *Saxena* 1308; *Singh*
2424, 2568; *Khotele* 2061, 3028, 7220, 8514. Local
name: *Badi Chatkani*.
Dolichos biflorus Linn.
Dhondai, Narainpur. *Khotele* 4061, 8326.
Eleiotis monophylla (Burm. f.) DC.
Sukma. *Khotele* 10359, 10397.
Indigofera glandulosa Roxb. ex Willd.
Maita. *Singh* 7156.
I. linifolia (Linn. f.) Retz.
Dantewada, Duhdawa, Antagarh, Jharandalli-
Bhanupratappur. *Saxena* 1237, 1523; *Khotele* 3054,
4012, 8749.
I. trifoliata Linn.
Dantewada, Bodegaon, Amraoti. *Khotele* 2095,
2866, 6250.
Phaseolus mungo Linn.
Narainpur: escape in forest. *Khotele* 4044.
P. aureus Roxb.
(*Phaseolus radiatus* auct. non Linn.)
Narainpur, Keshkal. *Khotele* 4045; *Khotele* &
Shukla 5353. Local name: *Paail*.
** *Pseudarthria viscida* (Linn.) W. & A.
Bhairamgarh, Kondagaon. *Khotele* 3114.
Rhynchosia minima DC.
Jagdalpur. *Khotele* 11530.
Sesbania aegyptiaca Pers.
Keshkal. *Khotele* 5383.
Tephrosia hamiltonii Drum.
(*Tephrosia purpurea* sensu Baker in Fl. Brit. Ind.)

Keshkal, Dantewada, Dudhawa, Sukma. *Saxena* 1521; *Saxena & Khotele* 1776; *Khotele & Shukla* 7224; *Khotele* 10361; *Singh* 2486. Local name: *Dumar, Bajradanti*.

** *T. lanceolata* Grah. ex W. & A.

Bisapur. *Khotele & Shukla* 7323.

Teramnus labialis (Linn. f.) Spreng.

Bailadilla. *Singh* 2567; *Saxena* 1310.

Trigonella foenum-graecum Linn.

Bhanupratappur. *Khotele* 8834.

Vigna vexillata (Linn.) A. Rich.

Antagarh, Narainpur. *Khotele* 2070, 4046, 10399.

Local name: *Barbela*.

Zornia gibbosa Spanoghe

Bailadilla, Darbha, Dudhawa, Dodegaon, Bhainsgaon, Narainpur. *Saxena* 1555; *Khotele & Shukla* 7281; *Khotele* 2094, 3170, 10295.

CAESALPINIACEAE

Caesalpinia bonduc (Linn.) Roxb.

Narainpur, Bhopalpatnam. *Khotele* 4038, 8829.

Local name: *Ghataran*.

Cassia absus Linn.

Bhiragaon-Narainpur, Konta. *Khotele* 3166; *Singh* 7181.

C. auriculata Linn.

Bastar, Narainpur. *Srivastava & Party* 99113 (LWG).

C. mimosoides Linn.

Kanker, Antagarh, Bodegaon, Bhiragaon, Kondagaon, Kutumsar. *Khotele* 2028, 3008, 3091, 3377; *Khotele & Singh* 6419.

C. pumila Linn.

Beejapur, Keshkal. *Singh* 2378; *Khotele & Shukla* 5372.

MIMOSACEAE

Acacia nilotica (Linn.) Del. subsp. *indica* (Benth.) Brenan (*Acacia arabica*)

Jagdapur. *Khotele* 6286.

A. auriculiformis A. Cunn.

Jagdapur—Cultivated. *Khotele* 2815.

Albizzia amara Boiv.

Dantewada. *Saxena* 1230.

* *Albizzia thomsonii* Brand.

Tirathgarh, Sukma. *Saxena* 5495, 5629.

Mimosa rubicaulis Lam.

Bhopalpatnam. *Khotele* 8711.

ROSACEAE

** *Pyrus pashia* Buch.-Ham.

Kunharas Forest. Fr. July. *Singh* 6774. Local name: *Banghuiyan*.

COMBRETACEAE

Anogeissus pendula Edgew.

Sukma, Pangam, Bhopalpatnam. *Saxena* 5647; *Khotele* 8732, 8733.

LYTHRACEAE

Ammannia baccifera Linn.

Bhopalpatnam, Bhanubeda, Bhiragaon, Kesalnar-Kondagaon, Dantewada, Keshkal, Dudhawa, Bhansi. *Saxena* 1183, 1290, 1526, 3467; *Khotele* 3113, 3321, 5274.

A. baccifera Linn. var. *aegyptiaca* Koehne
Syn. *A. salicifolia* Hiern. non Monti.

Kondagaon. *Khotele* 5287.

Rotala mexicana Cham. & Schecht

Syn. *Ammannia pygamaea* S. Kurz.

Darbha. *Khotele* 9566.

ONAGRACEAE

Ludwigia adscendens (Linn.) Hara

Syn. *Jussiaea repens* Linn.

Darbha. *Saxena & Khotele* 1679. Local name: *Jagni*.

SAMYDACEAE

Casearia elliptica Willd.

Syn. *C. tomentosa* Roxb.

Bhansi. *Saxena* 1335.

CUCURBITACEAE

Coccinia cordifolia (Linn.) Cogn.

Dantewada, Dhodai. *Khotele* 2873, 4076.

Corallocarpus epigaeus (Rottl. & Willd.) C.B. Cl.

Antagarh. *Khotele* 2079; *Singh* 6609.

Cucumis sativus Linn.

FLORA OF BASTAR

Kirandul, Keshkal. *Singh* 2590; *Khotele & Singh* 5362. Local name: *Bodella*.

Diplocyclos palmatus (Linn.) Jaffrey

Darbha, Kirandul. *Khotele* 3375, 10209; *Singh* 2593. Local name: *Beliabuti*, *Kochri*, *Chrabuti*.

Melothria maderaspatana (Linn.) Cogn.

Kirandul, Bhansi, Kanker. *Singh* 2540; *Saxena* 1320; *Khotele* 2016.

Momordica charantia Linn.

Sukma, Tirathgarh. *Saxena* 1632, 5662.

M. dioica Roxb. ex Willd.

Dornapal, Tongpal. *Singh* 7002, 7095. Local name: *Khaksi*, *Van Karela*.

Trichosanthes bracteata (Lam.) Voigt

Dondai, Sukma, Geedam, Kanker. *Khotele* 4075, 2046, 10256, 10376.

T. cucumeriana Linn.

Kanker, Jagdalpur. *Khotele* 2015; *Khotele & Shukla* 6468.

CACTACEAE

Opuntia monacantha Haw.

Kanker. *Saxena* s.n.

FICOIDEAE

Glinus oppositifolia (Linn.) A. DC.

Dudhawa, Sukma. *Saxena* 7535, 5651.

UMBELLIFERAE

Centella asiatica (Linn.) Urban

Bhansi, Sonpur, Darbha. *Khotele* 5078, 9582; *Saxena* 1408.

* *Eryngium foetidum* Linn.

Darbha. *Saxena* 5416. Local name: *Dhaniya*.

Hydrocotyle sibthorpioides Lam.

Darbha. *Khotele* 9581. Local name: *Choti Brahmi*.

Peucedanum naggpurens Prain

Keshkal. *Khotele* 5343.

Trachyspermum roxburghianum (DC.) Craib

Korar. *Khotele* 8439.

RUBIACEAE

Dentella repens Forst.

Jagdalpur, Bhopalpatnam, Sukma, Dudhawa.

Saxena 1536, 3490, 5651, 5655, 5663.

Gonothea ovatifolia (Cav.) Sant. & Wagh

Syn. *Oldenlandia nudicaulis* Roth

Dantewada, Kirandul, Beejapur, Keshkal. *Saxena* 1366; *Khotele* 8020; *Singh* 2222; *Khotele & Shukla* 5417.

Hedyotis hispida Retz.

Darbha, Kirandul, Bhansi, Bispur. *Saxena* 1406, 5405; *Khotele* 10321; *Singh* 4212. Local name: *Ronder*.

Rubia cordifolia Linn.

Bhansi, Bailadilla. *Saxena* 1294; *Singh* 4273.

* *Tarenna asiatica* (Linn.) Alston

Syn. *Webera corymbosa* Willd.

Bastar, between Narainpur and Dhamtari. *Srivastava* 9915 (LWG).

COMPOSITAE

Amberboa ramosa (Roxb.) Wagenitz.

Syn. *Voluterella divaricata* Benth.

Dudhawa. *Saxena* 1545.

Blainvillea acmella (Linn.) Phillipson

Kanker. *Singh* 2236; *Khotele* 2041.

Bidens pilosa Linn.

Bhansi, Kirandul, Kanker. *Saxena* 1429; *Singh* 4214; *Khotele* 2011.

* *Blumea hieracifolia* DC.

Keshkal. *Saxena* 1570.

B. laciniata (Roxb.) DC.

Bhanupratappur. *Khotele* 8566.

B. oxyodonta DC.

Dudhawa, Amabeda, Dantewada. *Saxena* 1170, 1173, 1525; *Khotele* 8468, 8568.

B. virens DC.

Bailadilla. *Saxena* 1285; *Khotele* 8358.

Centipeda minima (Linn.) A. Br. & Aschers

Jagdalpur, Bhanupratappur. *Khotele* 8547, 11516.

Centratherum anthelminticum (Willd.) D. Ktze.

Kirandul, Antagarh. *Singh* 2530; *Khotele* 3376. Local name: *Kappur*.

Chrysanthellum indicum DC.

Kanker, Tirathgarh. *Khotele* 1986, 6509.

Conyza aegyptiaca Ait.

Keshkal, Amraoti. *Saxena & Khotele* 1695; *Khotele* 6244.

C. canadensis (Linn.) Conquist; Cuatr. in Webbia 24:222, 1969.

Syn. *Erigeron canadensis* Linn.

Kanger Nala, Bailadilla, Geedam. Saxena 5553; Singh 6796; Khotele 6933.

Cosmos sulphureus Cav.

Antagarh, Kirandul, Geedam, Darbha: escape from cultivation; often abundant in patches. Singh 2546, 3372, 9586, 10252.

Crassocephalum crepidioides (Benth.) S. Moore
Syn. *Gynura crepidioides* Benth.

Bailadilla, Bhansi, Dantewada, Kutumsar. Khotele 8025, 9023; Khotele & Shukla 6451; Saxena 1444.

Glossogyne bidens (Retz.) Alston

Syn. *G. pinnatifida* DC.

Budra, Tirathgarh, Kosalnar, Kondagaon, Amraoti, Dantewada. Saxena 1634, 5464; Khotele 2853, 5281, 6201, 6237. Local name: *Teiraj*, *Dhaniyabuta*, *Datkuda*.

Sclerocarpus africanus Jacq.

Darbha, Basanpur, Dantewada, Bispur. Saxena 5446; Khotele 8024; Khotele & Shukla 7308.

Siegesbeckia orientalis Linn.

Bailadilla. Singh 4318. Local name: *Katkan*.

Sonchus asper Vill.

Bailadilla. Singh 2259.

Tridax procumbens Linn.

Common. Khotele & Shukla 5398; Khotele 4019, 5293.

Xanthium strumarium Linn.

Geedam. Singh 4349. Local name: *Kutraiya*.

STYLIDIACEAE

** *Stylidium kunthii* Wall.

Bispur, Darbha. Khotele 10330.

CAMPANULACEAE

Wahlenbergia marginata (Thunb.) A. DC.

Dantewada, Chhotedongar, Jagdalpur, Saxena 1177; Khotele 3492, 5225, 5226.

PRIMULACEAE

Lysimachia obovata Hk. f.

Bailadilla. Singh 2274.

MYRSINACEAE

** *Ardisia floribunda* Wall.

Syn. *A. neriifolia* Wall.

Purva Kameli. Khotele 9061.

SAPOTACEAE

Madhuca indica Gmel.

Syn. *M. latifolia* (Roxb.) Macbride

Bhairamgarh, Bhansi. Saxena 1427; Khotele 9381.

EBENACEAE

Diospyrus exsculpta Buch.-Ham.

Syn. *D. tomentosa* Roxb.

Sukma, Bhairamgarh. Saxena 3685; Khotele 3096.

Local name: *Tendu*.

OLEACEAE

Jasminum multiflorum (Burm. f.) Andr.

Jagdalpur. Khotele 3487.

J. officinale Linn.

Bailadilla, Amraoti: escape. Singh 6638; Khotele 6274.

APOCYNACEAE

Alstonia scholaris R. Br.

Bhansi. Saxena 1340.

Catharanthus pusillus G. Don

Kanker. Khotele 2068.

Tabernaemontana divaricata (Linn.) R. Br.

Jagdalpur—planted. Khotele 2816.

Vallis heynei Spreng.

Jagdalpur. Khotele & Shukla 6471.

Wrightia tomentosa (Roxb.) R. & S.

Tongpal. Singh 7047. Local name: *Kudegada*, *Dudhia*.

ASCLEPIADACEAE

Cryptolepis buchananii R. & S.

Badedongar. Khotele 1973, 8501.

Pergularia daemia (Forsk.) Chiov.

Bhopalpatnam. Khotele 8778.

Holostemma annularis (Roxb.) K. Schum.

Syn. *H. rheedii* (Wall.) Spreng.

FLORA OF BASTAR

- Kondagaon. Saxena & Khotele 1866. Local name: *Ipomoea batata* (Linn.) Linn.
Dudhi. Dantewada, Korar: escape. Khotele 2870, 8401.
- Sarcostemma acidum* (Roxb.) Voight
Syn. *S. brevistigma* W. & A. *Ipomoea cairica* (Linn.) Sweet
Geedam. Singh 4354. Local name: *Komelalki*.
- Korar. Khotele 8446. *I. eriocarpa* R. Br.
Kirandul, Bhainsgaon. Singh 2595; Khotele 3164.
- * *Tylophora fasciculata* Buch.-Ham. Local name: *Phulodari*.
Tongpal. Singh 7072. Local name: *Urwa Tonda*. *I. hederifolia* Linn.

LOGANIACEAE

- Strychnos nux-vomica* Linn.
Tirathgarh. Saxena 5509.

GENTIANACEAE

- * *Exacum pumilum* Griseb.
Dodagaon, Antagarh. Khotele 2088.

BORAGINACEAE

- Coldenia procumbens* Linn.
Dudhawa, Dantewada, Sukma, Tongpal. Saxena 1529, 5616, 5679; Singh 4387, 6785; Khotele 6035.
Local name: *Silphara*, *Chirima*, *Mallod Kusir*.
- Cynoglossum lanceolatum* Forsk.
Bailadilla, Bijapur, Bodegaon, Bhainsgaon, Darbha, Kondagaon. Khotele 2093, 3152, 5296; Khotele & Shukla 5359; Singh 2216, 2266. Local name: *Latkana*, *Choti likanda*.
- Heliotropium marifolium* Retz.
Bade Bacheli. Khotele 6056.
- H. ovalifolium* Forsk.
Jagdalpur. Khotele 11531.
- H. strigosum* Willd.
Dantewada. Khotele 2867.
- Merremia hederacea* (Burm. f.) Hall. f.
Syn. *Ipomoea chryseides* Ker-Gawl.
Sukma. Saxena 5690.
- M. tridentata* (Linn.) Hall. f.
Tirathgarh, Kanker, Dudhawa. Saxena 1551, 5499; Khotele 2023.
- Rivea hypocrateriformis* Choisy
Kondagaon. Saxena & Khotele 1865. Local name: *Garyparh*.

SOLANACEAE

- Datura metel* Linn.
Darbha. Khotele 8774.
- Physalis minima* Linn.
Jagdalpur. Khotele 2803, 9515.
- Solanum surattense* Burm. f.
Dudhawa, Bhopalpatnam. Saxena 1540; Khotele 8775.

CONVOLVULACEAE

- Argyreia sericea* Dalz.
Kirandul, Kanker, Korar, Bhiragaon, Darbha, Bispur. Singh 2573; Khotele 2025, 3095; Khotele & Shukla 7277, 7346. Local name: *Bhainsa Kand*.
- Erycibe paniculata* Roxb.
Dantewada. Khotele 6029.
- Evolvulus alsinoides* (Linn.) Linn.
Fairly common. Singh 6681, 7099; Khotele 1981, 2058, 3112, 3323, 5090, 5298, 6211, 6236, 6291, 10375.
Local name: *Karabuta*, *Bhui-Chirayata*, *Phulka*, *Konijorabhaji*.

SCROPHULARIACEAE

- Antirrhinum orontium* Linn.
Kondagaon. Khotele 3083.
- Limnophila aromatica* (Lamk.) Merr.
Darbha. Khotele 9584.
- Lindernia anagallis* (Burm. f.) Pennell
Budra, Sukma, Dhondai, Karrakosa, Bhiragaon, Darbha, Dantewada, Geedam. Saxena 1629, 5641, 5643, 5645; Singh 7091; Khotele 3118, 4054, 6036, 8763, 9574. Local name: *Pidkushir*.

* *L. cordifolia* (Colsm.) Merr.

Tirathgarh, Darbha, Dantewada. *Saxena* 1464, 5448; *Khotele* 6045, 9571.

* *L. hirsuta* (Benth.) Wettst.

Dantewada. *Khotele* 6025.

L. pusilla (Willd.) Schlecht.

Syn. *L. hirta* (Cham. & Schl.) Mukherjee

Keshkal, Badebacheli. *Saxena* 1562; *Khotele* 6062.

L. multiflora (Roxb.) Mukherjee

Bastar, Tongpal. *Singh* 7006, 7130.

L. nummularifolia (D. Don) Wettst.

Bisnur. *Khotele* & *Shukla* 7371; *Saxena* 1813.

L. parviflora (Roxb.) Haines

Dhondai, Sukma, Maita. *Khotele* 4054, 10364; *Singh* 7153.

OROBANCHACEAE

Orobanche aegyptiaca Pers.

Chhotedongar. *Khotele* 5238 A.

LENTIBULARIACEAE

Utricularia aurea Lour.

Syn. *U. flexuosa* Vahl

Sonpur, Dantewada. *Saxena* 1211; *Khotele* 5209.

** *U. graminifolia* Vahl

Tirathgarh. *Saxena* 1480, 5481.

BIGNONIACEAE

Heterophragma roxburghii DC.

Allapalli. *Khotele* 9373.

ACANTHACEAE

Adhatoda vasica Nees

Badedongar, Pharasgaon, Jagdalpur. *Khotele* 8540; *Saxena* 1472.

Andrographis echinoides (Linn.) Nees

Bijapur, Sambalpur, Kanker, Darbha, Bisnur. *Singh* 2360; *Khotele* 1999, 3026, 10221, 17367.

Dicliptera bupleuroides Nees

Narainpur, Bhanupratappur. *Khotele* 5052, 8590.

Dipteracanthus beddomei (C.B. Cl.) Sant.

Kameli, Kutumsar. *Khotele* 8013; *Khotele* & *Shukla* 6451, 7300.

D. prostratus (Poir.) Nees

Bailadilla. *Singh* 2284.

D. suffruticosa (Roxb.) Voight

Tongpal. *Khotele* 6583.

Dystoriste erecta (Burm. f.) O. Ktze.

Kutumsar. *Panigrahi* & *Arora* 1165 (BSA).

Justicia diffusa Willd.

Sukma, Kanker, Antagarh, Keshkal. *Singh* 7081; *Khotele* 1994, 4003; *Khotele* & *Shukla* 5376. Local name: *Bapadai Ghachh*.

J. glauca Rottb.

Golapatti, Kanker, Domkosa, Bhanupratappur, Sukma. *Khotele* 2021, 8584, 10367; *Singh* 7140.

Lepidagathis cristata Willd.

Tirathgarh, Antagarh, Bhanupratappur, Darbha. *Saxena* 5508; *Khotele* 3381, 3395, 8585, 10202.

Rungia repens Nees

Tongpal. *Singh* 7052.

* *Staurogyne glauca* (Nees) O. Ktze.

Darbha. *Saxena* 5406.

Strobilanthes edgeworthii Nees

Bhaisgaon, Darbha. *Khotele* 8485, 10204.

* *Synnema barbigera* O. Ktze.

Syn. *Cardanthera balsamica* Benth. ex C.B. Cl.

Dantewada, Nelsanar. *Saxena* 1172; *Singh* 4362. Local name: *Latbhaji*.

VERBENACEAE

Callicarpa macrophylla Vahl.

Bhansi, Bailadilla, Basanpur, Dantewada, Badebacheli. *Saxena* 1252; *Singh* 6652; *Khotele* 6077, 8027.

Clerodendrum phlomoides Linn. f.

Awapalli. *Khotele* 8708.

C. viscosum Vent

Syn. *C. infortunatum* auct. non Linn.

Sukma, Chhotedongar. *Saxena* 1680; *Khotele* 5220, 5240.

Duranta repens Linn.

Darbha, Amravati, *Khotele* 6267, 6406, 10207.

Premna barbata Wall. ex Schauer

Keshkal. *Saxena* & *Khotele* 17877.

Pygmacopremna herbacea (Roxb.) Moldenke

Syn. *Premna herbacea* Roxb.

Budra, Jherandalli-Bhanupratappur, Kondagaon. *Saxena* 1249; *Khotele* s.n.

FLORA OF BASTAR

Vitex leucoxydon Linn. f.
Tirathgarh, Manikpur, Badebacheli, Awapalli.
Saxena 1491, 1596, 5484; *Khotele* 6057, 9396.
V. negundo Linn.
Awapalli. *Khotele* 9387.

LABIATAE

* *Dysophylla verticillata* Benth.
Dantewada. *Singh* 2490.
Leucas aspera (Willd.) Spreng.
Geedam. *Khotele* 10253.
L. cephalotes (Roth) Spreng.
Tongpal. *Singh* 7016. Local name: *Bhui Kumra*.
L. lavandulaefolia Rees
Keshkal, Darbha, Govindpur, Jagdalpur, Chhote-
dongar, Tongpal Dumarpadar. *Saxena* 1582, 5463;
Saxena & Khotele 1691; *Khotele* 4317, 3479, 5221,
5394, 6569. Local name: *Banbhuhari*, *Gubi*.
L. nutans Spreng.
Bhansi. *Saxena* 1440.
Micromeria biflora Benth.
Bailadilla, Purva Kameli. *Singh* 4306, 4336; *Kho-*
tele 9080. Local name: *Bantili*, *Hariabuta*.
Ocimum americanum Linn.
Budra, Sukma, Kirandul, Bhanupratappur, Darbha.
Saxena 1641, 5404, 5682; *Khotele* 8098, 8548, 10240;
Singh 2256, 6692. Local name: *Vantulsi*.
O. basilicum Linn.
Kanker, Jagdalpur. *Khotele* 3493, 8447.
O. sanctum Linn.
Bisnur, Dudhawa. *Saxena* 1561; *Khotele* 7345.
** *Platystoma africanum* Beauv.
Keshkal. *Khotele* 7292.

NYCTAGINACEAE

Mirabilis jalapa Linn.
Tongpal, Bijapur. *Singh* 2203, 7022. Local name:
Dhudya ghil.

AMARANTHACEAE

Achyranthes bidentata Bl.
Bisnur. *Khotele* 10309
Aerva monsoniae (Linn. f.) Mast.

Bhopalpatnam, Kanker, Antagarh. *Khotele* 1991,
4015, 8780.
Allmania nodiflora R. Br.
Amraoti. *Khotele* 6254.
Amaranthus blitum Linn. var. *oleracea* Hk. f.
Kutumsar. *Panigrahi & Arora* 1176 (BSA).
A. caudatus Linn.
Sukma. *Khotele* 10357.
A. spinosus Linn.
Common in waste lands. *Khotele* 2802, 5279, 6412,
8748.
A. tricolor Linn.
Bhainsgaon-Narainpur. *Khotele* 3148.
A. viridis Linn.
Nelsanar. *Singh* 4363.
Deeringia amaranthoides (Lam.) Merr.
Kondagaon. *Khotele* 6213.
Gomphrena celosioides Mast.
Dantewada, Tongpal. *Saxena* 1232; *Singh* 2300;
Khotele 6413, 6576.
** *Psilotrichum trichotomum* Bl.

Bijapur, Dornapal, Godantari-Kondagaon. *Singh*
2215, 7097; *Khotele* 5292.

POLYGONACEAE

* *Polygonum rotleri* Roth
Syn. *P. flaccidum* Meissn.
Amabeda. *Khotele* 8460. Local name: *Bas*.
P. serrulatum Lagasc.
Bisnur. *Khotele* 10342.
P. stagninum Buch.-Ham.
Kirandul, Nelsnar, Narainpur. *Singh* 4211, 4378;
Khotele 3124, 8460. Local name: *Magarlata*, *Urni-*
lua, *Kiker Kushir*.
P. tomentosum Willd.
Dantewada, Sangam-Bhopalpatnam, Jagdalpur.
Khotele 8728, 11518; *Singh* 2489.

LAURACEAE

Litsea glutinosa (Lour.) C.B. Robins.
Kangernala, Awapalli. *Khotele* 9400.

EUPHORBIACEAE

Acalypha indica Linn.

Kristaram. Singh 7135.
Bridelia montana Willd.
 Sukma. *Khotele* 10363.
Chrozophora prostrata Dalz.
 Sukma. *Saxena* 5649.
 ** *Cleistanthus patulus* Muell.-Arg.
 Purvakameli, Bailadilla. *Khotele* 9013, 9058, 9062.
Euphorbia hypericifolia Linn.
 Dantewada, Bhansi, Tongpal. *Khotele* 2838, 7003;
 Singh 6913. Local name: *Barpad* Kushir.
E. prostrata Ait.
 Darbha, Dudhawa. *Saxena* 1527; *Saxena & Khotele*
 1680, 1683; *Khotele & Shukla* 7244. Local name:
Dudhi.
Jatropha curcas Linn.
 Budra, Tirathgarh. *Saxena* 1626, 5474. Local name:
Ranijad, Bajranga.
Phyllanthus asperulatus Hatch.
 Syn. *P. fraternus* Webst.
 Bhansi, Bispur. *Saxena* 1245, 1348; *Khotele &*
Shukla 7303.
P. urinaria Linn.
 Bijapur, Kutumsar, Bailadilla, Jagdalpur. *Khotele*
 2801, 6082; Singh 2213; *Khotele & Shukla* 6427.
Ricinus communis Linn.
 Keshkal, Kirandul, Bhanupratappur, Kosalnar-
 Kondagaon. *Saxena* 1362; *Khotele* 3439, 5277, 8827.

UTRICACEAE

Laportea interrupta (Linn.) Chew.
 Syn. *Fleurya interrupta* (Linn.) Wt.
 Narainpur, Keshkal, Konta. *Khotele* 3141; *Khotele*
& Shukla 5370; Singh 7192.
Pilea microphylla Liebm.
 Kondagaon, Jagdalpur. *Khotele* 2812, 3087.
Pouzolzia auriculata Wight
 Keshkal. *Saxena & Khotele* 1806; *Khotele* 5373.

MORACEAE

Ficus rumphii Bl.
 Kosalnar-Kondagaon. *Khotele* 5273. Local name:
Jodi.
F. tomentosa Roxb.
 Mohpal-Pharasgaon. *Khotele* 8533.

Morus indica Linn.
 Keshkal. *Khotele & Shukla* 5388.

SALICACEAE

Salix tetrasperma Roxb.
 Sukma, Korar, Geedam. *Saxena* 5642; *Khotele*
 8489, 10254. Local name: *Nained*.

CERATOPHYLLACEAE

Ceratophyllum demersum Linn.
 Manikpur, Kutru, Bhairamgarh. *Saxena* 1605;
Khotele 9330. Local name: *Jalbi* ..

HYDROCHARITACEAE

Hydrilla verticillata (Linn. f.) Royle
 Bhiragaon. *Khotele* 3103.

ORCHIDACEAE

Acampe praemorsa (Roxb.) Blatt. & McCann
 Syn. *Saccolobium wightianum* Hk. f.
 Kirandul, Tirathgarh. *Saxena* 1459; *Khotele* 8096.
Eulophia mackinnonii Duthie
 Kondagaon. *Saxena & Khotele* 1855.
Habenaria marginata Colebr.
 Bhainsgaon. *Khotele* 3177.

ZINGIBERACEAE

Curcuma angustifolia Roxb.
 Darbha, Keshkal. *Saxena* 5444; *Saxena & Khotele*
 1809. Local name: *Tikhur*.
C. aromatica Salisb.
 Kirandul. *Khotele* 8080.
 ** *C. pseudomontana* Grah.
 Amraoti, Kameli-Dantewada. *Khotele* 2899, 6261.
 Local name: *Sirondi*.
Globba racemosa Sm.
 Bailadilla, Tongpal. Singh 6610; *Khotele* 6562,
 8077.
 ** *Zingiber capitatum* Roxb.
 Bhopalpatnam, Antagarh, Bailadilla. Singh 2196,
 4282; *Khotele* 3359. Local name: *Gerkan*.
Z. rubens Rosc.
 Bhainsgaon, Korar. *Khotele* 8493.

FLORA OF BASTAR

AMARYLLIDACEAE

- Agave americana* Linn.
Kondagaon. *Saxena & Khotele* 1831. Local name: *Rambans, Khetki*.

TACCACEAE

- Tacca leontopetaloides* (Linn.) O. Ktze.
Kondagaon, Bijapur. *Saxena & Khotele* 1853,
2383. Local name: *Dhongri, dhai*.

DIOSCOREACEAE

- Dioscorea alata* Linn.
Narainpur. *Khotele* 4048. Local name: *Bhainsd-hate*.
** *D. wallichii* Hk. f.
Dantewada. *Saxena* 1209.

LILIACEAE

- Asparagus gracilis* Royle
Korar, Kutumsar. *Khotele* 2062; *Khotele & Shukla* 6421.
Chlorophytum laxum R. Br.
Tirathgarh. *Saxena & Khotele* 1880.
Iphigenia indica (Linn.) A. Gray
Antagarh, Keshkal. *Khotele* 3380, 5346.
Urginea indica (Roxb.) Kunth
Dantewada, Chhotedongar, Amraoti. *Saxena* 1226;
Khotele 5227; 6272.

PONTEDERACEAE

- Monochoria vaginalis* Presl.
Kondagaon: aquatic. *Saxena & Khotele* 1871.

COMMELINACEAE

- Commelina forskalii* Vahl
Jagdalpur. *Khotele* 3488.
* *Murdannia vaginatum* (Linn.) Bruck.
Dumarpak. *Khotele* 7211.

JUNCACEAE

- Juncus prismatocarpus* R. Br.
Tirathgarh. *Saxena* 5507.

ARACEAE

- Arisaema tortuosum* Schott

Keshkal, Kutumsar, Geedam, Dantewada, Kirandul. *Khotele* 1798; *Khotele & Shukla* 5327, 7391; *Singh* 2591, 6925, 6770. Local name: *Dheskand, Baggujri*.

Remusatia vivipara (Lodd.) Schult.

Kirandul, Keshkal, Tirathgarh, Bailadilla. *Saxena* 1397; *Saxena & Khotele* 1810; *Khotele* 3205, 8058.
Theriophorum minutum Engl.

Tirathgarh, Kutumsar. *Saxena & Khotele* 1848;
Khotele & Shukla 6422.

ALISMACEAE

Butomopsis lanceolata Kunth.

Dantewada, Darbha, Bhairamgarh. *Khotele* 9322, 9577; *Singh* 2478.

Saggitaria guayanensis H.B.K.

Konta: aquatic. *Singh* 7106.

POTAMOGETONACEAE

* *Potamogeton javanicus* Hassk.

Bhaitsgaon, Tirathgarh. *Saxena* 5488; *Khotele* 5100.

P. indicus Roxb.

Syn. *P. nodosus* Poir.

Bhairamgarh, Manikpur, Budra. *Saxena* 1604, 3424; *Khotele* 9375.

APONOGETONACEAE

* *Aponogeton natans* (Linn.) Engl. & Krause

Syn. *A. monostachyus* Linn. f. ("monostachyon")
Tongpal. *Singh* 7001.

CYPERACEAE

Bulbostylis barbata (Rottb.) C.B. Cl.
Dantewada. *Khotele* 2878.

B. capillaris Kunth.

Dantewada. *Khotele* 2879.

Cyperus amabilis Vahl

Kondagaon. *Khotele* 3111.

C. digitatus Roxb.

Bhairagaon. *Khotele* 3104.

C. exaltatus Retz.

Kanker, Jharandelli, Tongpal. *Khotele* 2030, 3064;
Singh 7033. Local name: *Bidya Tonda*.

C. melanosperma (Nees) Suringar

Bachel, Kirandul path. *Singh* 2521.

- C. sanguinolentus* Vahl
Darbha, Bispur. *Khotele* & *Shukla* 9588, 10343.
- C. squarrosus* Linn.
Darbha. *Khotele* & *Shukla* 7257.
- C. tenuispica* Steud.
Syn. *C. flavidus* auct. non Retz. sensu C.B. Cl. in Fl. Brit. Ind.
Sukma, Geedam, Dantewada, Jagdalpur. *Saxena* 1178, 1181, 1184.
- C. triceps* (Rottb.) Engl.
Geedam, Amraoti, Kondagaon, Bengpal. *Khotele* 2877, 6279, 6203, 10354; *Singh* 2419.
- Elaeocharis congesta* D. Don
Darbha. *Khotele* 9564.
- Fimbristylis argentea* Vahl
Kutru-Bhairongarh. *Khotele* 9337.
- F. littoralis* Gaud.
Syn. *F. miliacea* sensu C.B. Cl. in Fl. Brit. Ind.
Bodagaon, Geedam, Dumarpadav, Darbha, Bijapur, Kirandul. *Khotele* 3013, 9546, 11502; *Khotele* & *Shukla* 7217, 7263; *Singh* 2357, 2526, 4339.
Local name: *Kondibuti, Narhaghas*.
- Fuirena ciliaris* (Linn.) Roxb.
Konta. *Saxena* 5704.
- Rhynchospora longisetis* R. Br.
Kanker, Konta. *Khotele* 2067; *Singh* 1779.
- Scirpus erectus* Poir.
Korar. *Khotele* 8442.
- S. squarrosus* Linn.
Bhopalpatnam, Darbha, Geedam, Sukma. *Khotele* 4337, 5085, 8762, 7259, 9365, 10277; *Khotele* & *Shukla* 10365.
- S. supinus* Linn.
Geedam. *Khotele* 10273.
- Scleria caricina* (R. Br.) Benth.
Bispur. *Khotele* 10325.
- GRAMINEAE
- Alloterospsis cimicina* (Linn.) Stapf.
Dantewada, Konta, Geedam, Darbha, Keshkal. *Khotele* 2888, 9527; *Singh* 2237, 7173; *Khotele* & *Shukla* 5331, 7261.
- Bothriochloa glabra* (Roxb.) A. Camus
Antagarh. *Khotele* 3384.
- B. odorata* (Lisboa) A. Camus
Antagarh. *Khotele* 3396.
- Brachiaria reptans* (Linn.) Gard. et C.E. Hubb.
Kutru, Bhairongarh, Kameli, Dantewada. *Khotele* 2824, 2893, 9338.
- Chloris dolichostachya* Lagasc.
Sonpur. *Khotele* 5201.
- Dichanthium aristatum* (Poir.) C.E. Hubb.
Dantewada, Bhairamgarh. *Saxena* 1233; *Khotele* 9339.
- Digitaria granularis* (Trin.) Henr.
Darbha, Tirathgarh, Bispur, Bhaigaon, Narainpur. *Saxena* 1896; *Khotele* & *Shukla* 7262, 7380; *Khotele* 3176.
- D. longifolia* (Retz.) Pers.
Bhopalpatnam. *Khotele* 8766.
- Eragrostiella bifaria* Wight ex Steud.
Keshkal, Korar, Dantewada. *Khotele* 2006; *Khotele* & *Shukla* 5358; *Shukla* 5356.
- E. brachyphylla* (Stapf) Bor
Tongpal, Bailadilla. *Khotele* 6572; *Singh* 6603.
- Eragrostis tenuifolia* Hochst. ex Steud.
Keshkal. *Saxena* 1698.
- E. viscosa* (Retz.) Trin.
Chhotedongar, Keshkal, Manikpur, Bailadilla, Kondagaon. *Saxena* 1607; *Singh* 4290; *Khotele* 3419, 5215, 5282.
- Eulalia trispicata* (Schult.) Henr.
Kirandul. *Singh* 2559. Local name: *Bhanaghas*.
- Hackelochloa granularis* (Linn.) O. Ktze.
Marta, Keshkal, Kutumsar, Bhanupratappur. Korar, Bispur. *Singh* 2377, 7171; *Khotele* & *Shukla* 5360, 6438; *Khotele* 2003, 3061.
- Isachne globosa* (Thunb.) O. Ktze.
Antagarh, Kirandul, Bhanupratappur, Geedam, Bispur. *Khotele* 10391, 10392, 10322, 11310, 11509, 3048, 3555; *Singh* 2522. Local name: *Bindu Rodaghas*.
- Ischaemum nilagiricum* Hack.
Sonpur. *Khotele* 5070.
- Mnesithea laevis* (Retz.) Kunth
Keshkal, Bastar. *Khotele* & *Shukla* 7202; *Khotele* 6230.
- Panicum notatum* Retz.
Keshkal, Narainpur, Kirandul, Bailadilla. *Khotele*

3156, 3476, 4042; Singh 2522, 4308. Local name: *Chhinghas*.

P. paludosum Roxb.

Keshkal. *Khotele* & *Shukla* 7229.

P. psilopodium Trin.

Bisnur, Tongpal, Bhairamgarh, Jagdarpur, Kameli, Bailadilla. *Khotele* 3159, 6300, 6575, 8010; *Khotele* & *Shukla* 7316; Singh 4291. Local name: *Nan Kousra*.

P. sumatrense Roth

Jagdarpur, Geedam, Bisnur, Bailadilla, Narainpur, Bhanupratappur. *Khotele* 3489, 5095, 8092, 8552, 10262; *Khotele* & *Shukla* 7332; Singh 4324; *Khotele* 3489. Local name: *Koshra, Kodoghas*.

Paspalum orbiculare Forst.

Tirathgarh, Bastar. *Khotele* 8559, 8589.

Pseudopogonatherum contortum (Brongn.) A. Camus

Kirandul, Korar, Budra. Singh 2561; *Khotele* 3352, 3432. Local name: *Bhirbhasighas*.

Setaria verticillata (Linn.) P. Beauv.

Kutumsar. *Khotele* & *Shukla* 7388.

Sorghum cernuum Host.

Darbha. *Khotele* 10242.

Sporobolus indicus auct. non (Linn.) R. Br.

Amraoti. *Khotele* 6246.

S. tenuissimus (Schrack) O. Ktze.

Korar, Keshkal. *Khotele* 2064; *Khotele* & *Shukla* 5361.

ASPIDACEAE

* *Cyclosorus parasiticus* (Linn.) Tardein ex Tardien & C. Chr.

Syn. *Dryopteris parasitica* (Linn.) O. Ktze.

Bhansi, Kirandul. *Saxena* 1343; Singh 2544.

ASPLENIACEAE

** *Asplenium dalhausiae* Hook.

Syn. *Ceterach dalhausiae* (Hook.) C. Chr.

Bailadilla. Singh 4294.

ACKNOWLEDGEMENTS

We are grateful to the Director and to the Assistant Director, Floristic Botany Division, National Botanic Gardens, Lucknow; to the Director, Botanical Survey of India, Calcutta; to the President, F.R.I., Dehra Dun; to the Officer-in-Charge, Botany Branch, F.R.I., Dehra Dun; to the Director, State Forest Research Institute, Jabalpur; to the Regional Botanist, Botanical Survey of India, Central Circle, Allahabad; to the Conservator Forests, Bastar Circle; and to Divisional Forest Officers and staff of all Forest Divisions of Bastar for their kind cooperation in various ways.

REFERENCES

- ARORA, C. M. (1968): The Botany of Bailadilla, Bastar State, M.P. *Bull. bot. Surv. India* 10:61-66.
- JAIN, S. K. (1963): Studies in Indian Ethnobotany-Plants used in medicine by the tribals of Madhya Pradesh. *Bull. Region. Res. Lab. Jammu* 1:126-128.
- (1964): Wild Plant-Foods of the Tribals of Bastar (M.P.) *Proc. nat. Inst. Sci., India* 30(B):56-80.
- (1965): Medicinal Plant Lore of the tribals of Bastar. *Econ. Bot.* 19:236-250.
- MOONEY, H. F. (1942): A Sketch of the Flora of the Bailadilla Range in Bastar State. *Indian For. Rec.* (new series) 3:197-253.
- PANIGRAHI, G. & ARORA, C. M. (1965): Contribution to the Botany of Madhya Pradesh. II. *Proc. nat. Acad. Sci.* 35:87-98.
- PANIGRAHI, G. & VERMA, D. M. (1965): *ibid.* III. *Proc. nat. Acad. Sci.* 35:99-109.
- PANIGRAHI, G., ARORA, C. M., VERMA, D. M. & SINGH, V. N. (1966): *ibid.* I. *Bull. bot. Surv. India* 8:117-125.
- PANIGRAHI, G. & PRASAD, R. (1966): *ibid.* IV. *Proc. nat. Acad. Sci.* 36:553-564.
- & SINGH, A. N. (1967): *ibid.* V. *Proc. nat. Acad. Sci.* 37:77-104.
- RAMLAL & PANIGRAHI, G. (1967): Contribution to the Botany of Madhya Pradesh. VI. *Bull. bot.*

Surv. India. 9:262-267.

SHUKLA, U. & PANIGRAHI, G. (1967): Contribution to the Botany of Madhya Pradesh—VII. *Bull. bot. Surv. India.* 9:268-276.

SUBRAMANYAM, K. & HENRY, A. N. (1966): Vascular Plants of Madhya Pradesh. *Bull. bot. Surv. India.* 8:207-215.

TIWARI, S. D. N. (1954-55): The Grasses of Madhya Pradesh. *Indian For.* 80:601-611, 681-689, 1954; 81:107-115, 191-200, 1955.

_____ (1963): Supplement to the Grasses of Madhya Pradesh. *Indian For.* 89:595-602.

_____ & MAHESHWARI, J. K. (1963): The Orchids of Madhya Pradesh. *Indian For.* 89:426-444.

_____ (1964): The Ferns of Madhya Pradesh. *J. Indian bot. Soc.* 43:431-452.

_____ (1964): The Cyperaceae of Madhya Pradesh. *Indian For.* 90:147-158; 616-620.

_____ (1965): The Commelinaceae of Madhya Pradesh. *Indian For.* 91:580-590.